



Material Safety Data Sheet

Format no: RDM/MSDS/MS-03

Revision: 01 / 2024

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product Identifiers

Product Name

**Murashige and Skoog Modified Medium
(With Calcium Chloride and Gamborg B5 vitamins
Without Sucrose and Agar) (RDM-MS-03)**

Brand

ReadyMED®

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified Uses

Plant tissue culture media, used for in vitro generation of plants.

1.3 Details of the supplier of the safety data sheet

Company

CHAITANYA AGRO BIOTECH PVT. LTD.

CIN NO.: U24210MH1995PTC095220S,

S. No. 120/2, Laxmi Nagar, Umbarnala Road, Malkapur-443101,

Dist.: Buldana (M.S.) India. Customer Care +91-8208650655

rdmsales@chaitanyagroupindia.com, mkt.cabt@chaitanyagroupindia.com,

www.chaitanyagroupindia.com

1.4 Emergency telephone number

Emergency Phone#

Local Emergency Service numbers where product is being used

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

No Significant Hazard

2.2 Label elements

No Significant Hazard

2.3 Other hazards

Combustible dusts: May form combustible dust concentrations in air. Dust may be irritating if inhaled.

SECTION 3: Composition/information on ingredients

3.1 Mixtures

Contain Harmful / Irritant material

Chemical name	CAS No.	EC. No.	Classification
Potassium nitrate	7757-79-1	231-818-8	Oxidizing solids
Calcium chloride	10043-52-4	233-140-8	Eye irritant
Manganese sulphate	10034-96-5	232-089-9	Aquatic chronic

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice

Consult physician with this safety data sheet

If inhaled

Move the person to fresh air; if person is unable to breath give artificial respiration and consult physician

Eye contact

Rinse immediately with plenty of water. Contact lenses should be removed. Seek medical attention if irritation or symptoms persist

In case of skin contact

Wash with soap and plenty of water in order to remove all contents from skin

If swallowed

Rinse mouth with water and consult physician.

4.2 Acute and delayed important symptoms and effects

Most important symptoms and effects, both acute and delayed

Inhalation

May cause irritation to respiratory system

Eye contact

May cause irritation to eyes

Skin contact

May cause irritation to skin

Ingestion

Ingestion may cause nausea and vomiting

4.3 Indication of any specific or immediate medical

Remove the affected person from the source of

treatment needed	contamination immediately. Transfer to hospital if there are burns or symptoms of poisoning. Seek medical attention if irritation or symptoms persist. If medical advice is needed, have product container or label at hand.
SECTION 5: Firefighting measures	
5.1 Extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide/ Use extinguishing media appropriate to the surrounding fire conditions.
5.2 Special hazards arising from the substance or mixture	Combustible dusts: May form combustible dust concentrations in air. Avoid formation of dust. Do not allow undiluted product to be released to ground water, water course or sewage system.
5.3 Advice for fire fighters	Wear self-contained breathing apparatus for firefighting if necessary. Do not breathe dust or vapor. Wear suitable respiratory equipment when necessary.
5.4 Further information	No data available
SECTION 6: Accidental release measures	
6.1 Personal protective equipment and emergency procedures	Use personal protective equipment as per the local authority or the firm. Avoid dust formation and breathing dust. Avoid breathing vapours, mist or gas. Ensure adequate ventilation in area of work. For personal protection see section 8.
6.2 Environmental precautions	Do not let product enter drains.
6.3 Methods and materials for containment and cleaning up Pick up and arrange disposal without creating dust.	Sweep up and shovel. Keep in suitable, closed containers for disposal.
6.4 Reference to other sections	For disposal see section 13.
SECTION 7: Handling and storage	
7.1 Precautions for safe handling Provide appropriate exhaust ventilation at places where dust is formed.	Normal measures for preventive fire protection. For precautions see section 2.2. & 6.1
7.2 Conditions for safe storage, including any incompatibilities	Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Hygroscopic, Moisture sensitive.
7.3 Specific end use(s) Apart from the uses mentioned in section 1.2	No other specific uses are stipulated
SECTION 8: Exposure controls/personal protection	
8.1 Control parameters	Components with workplace control parameters and regulations
8.2 Exposure controls	
Appropriate engineering controls	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.
Personal protective equipment	
Eye/face protection	Triple layered Surgical Face mask and Safety glasses with side-shields.
Skin protection	Use of proper gowning/ aprons, Handle with gloves. Gloves must be inspected prior to use. Use proper glove

removal technique (without touching glove's outer surface) to avoid skin contact with this product in accordance with good laboratory practices.

Body Protection

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place

Respiratory protection

Respiratory protection is not required. Where protection from nuisance levels of dusts is desired, use triple layered surgical type or type P1

Control of environmental exposure

Do not let product enter drains.

Other information

Stomach pains, vomiting, diarrhoea. Prolonged or repeated exposure may cause allergic reactions in certain sensitive individuals

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

a) Appearance	Form: powder Colour: Off white coloured
b) pH	4.00 – 6.00 at 25°C
c) Melting point/freezing point	No data available
d) Initial boiling point and boiling range	No data available
e) Flash point	No data available
f) Evaporation rate	No data available
g) Flammability (solid, gas)	No data available
h) Upper/lower flammability or explosive limits	No data available
i) Vapour pressure	No data available
j) Vapour density	No data available
k) Relative density	No data available
l) Water solubility	No data available
m) Partition coefficient: n-octanol/water	No data available
n) Auto-ignition temperature	No data available
o) Decomposition temperature	No data available
p) Viscosity	No data available
q) Explosive properties	No data available
r) Oxidizing properties	No data available

9.2 Other safety information

No data available

SECTION 10: Stability and reactivity

10.1 Reactivity	No data available
10.2 Chemical stability	Stable under recommended storage conditions.
10.3 Possibility of hazardous reactions	No data available
10.4 Conditions to avoid	No data available
10.5 Incompatible materials	Strong oxidizing agents
10.6 Hazardous decomposition products Hazardous decomposition products formed under fire conditions.	Nature of decomposition products not known. Hazardous decomposition products formed under fire conditions. - Carbon oxides, Hydrogen chloride gas, Sodium oxides Other decomposition products - No data available In the event of fire: see section 5

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Based on available data, the classification criteria are not met. However, this product does contain substance(s) that

Skin corrosion/irritation
Serious eye damage/eye irritation
Respiratory or skin sensitisation
Germ cell mutagenicity
Carcinogenicity IARC:

Reproductive toxicity
Specific target organ toxicity - single exposure

Specific target organ toxicity - repeated exposure
Aspiration hazard
Additional Information RTECS

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

SECTION 12: Ecological information

12.1 Toxicity

12.2 Persistence and degradability
12.3 Bio-accumulative potential
12.4 Mobility in soil
12.5 Results of PBT and vPvB assessment

12.6 Other adverse effects

are classified as hazardous. For more information, see Section 3 And 4
May cause irritation to skin.
May cause irritation to eyes
May cause allergic reactions in susceptible people
No mutagenic effects reported.
No components of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
No teratogenic effects reported.
May cause allergy or asthma symptoms or breathing difficulties if inhaled
No Significant Hazard
No Significant Hazard
Avoid prolonged or repeated exposure. Delayed appearance of the complaints and development of hypersensitivity (difficult breathing, coughing, asthma) are possible

Based on available data, the classification criteria are not met. However, this product does contain substance(s) that are classified as hazardous. For more information, see Section 3 and 4

No data available
No data available
No data available
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted
No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods
Product

Contaminated packaging

Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Dispose of as unused product.

SECTION 14: Transport information

Type of Material
Special precautions for user
Environmental hazards

Not dangerous goods
No data available
No

Section 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

International Chemical Weapons Convention (CWC)
Schedules of Toxic Chemicals and Precursors

Neither Banned Nor Restricted

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII)

Neither Banned Nor Restricted

Listed substance / Sunset Date

After the sunset date the use of this substance requires either an authorization or can only be used for exempted uses, e.g. use in scientific research and development which includes routine analytics or use as intermediate.

15.2 Chemical safety assessment

For this product a chemical safety assessment was be carried out

Section 16: Other Information

The information contained in the safety data sheet is to the best of our knowledge is accurate and true based on the research and development work carried out by ReadyMED, Chaitanya Agro Biotech, Malkapur, Maharashtra. The products are neither intended for any therapeutic use for animal or human nor for any other in-vivo applications. The ReadyMED products are only meant to be used for the laboratory, diagnostic, research, or further manufacturing purpose only. These technical outcomes should not be considered as the warranty of any kind expressed or implied, and no liability is accepted for infringement of any patent.



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